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Top Secret



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Selected Cement Plants China

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RCS 13/0031/70

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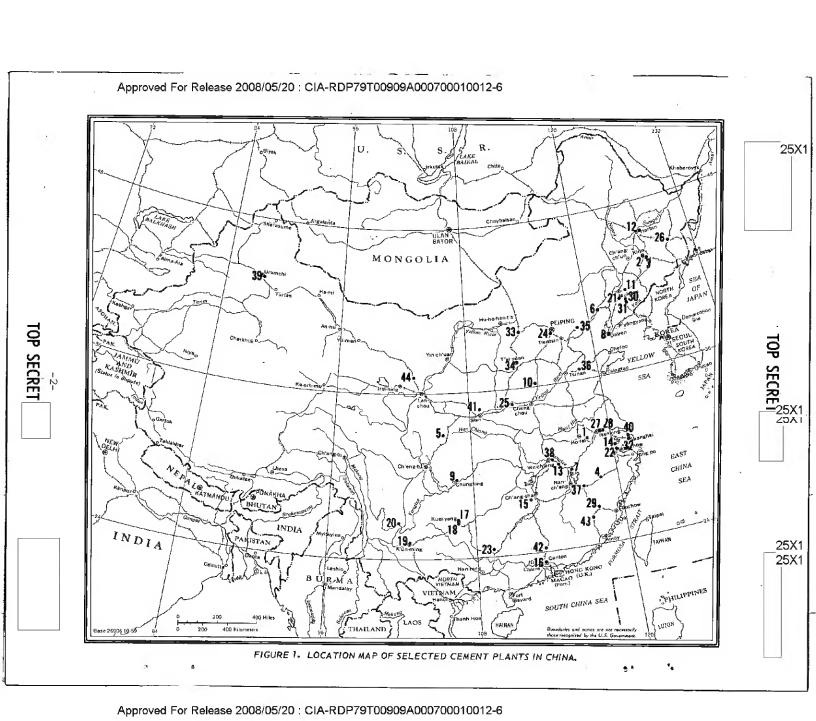
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CENTRAL INTELLIGENCE AGENCÝ Directorate of Intelligence Imagery Analysis Service

ABSTRACT

This report covers 44 major cement plants in China, which are all those known to be equipped with rotary kilns as of January 1970. It includes the initial basic studies on four plants at Chi-lin, Hu-chou, Liao-yang, and Lin-ping, and provides updates for 37 of the 40 plants covered in the previous Basic Imagery Interpretation Report on cement plants in China. The other three plants, at Chao-hsien, Fu-shun, and Nan-ping, have not been seen on interpretable photography since the previous report. This report covers the period April 1969 to January 1970.

Of the 44 plants, the three at Wan-nien, Ying-te, and Yung-an remain incomplete. The other 41 plants are complete and considered operational. They contain at least 90 and probably 96 rotary kilns. During the period of this study, 69 rotary kilns were observed in operation at 35 plants. No kilns were seen in operation at Chung-ching, Liao-yang, and Pen-chi South. No new construction was initiated at any of the plants during 1969. Only one new kiln, a fourth kiln at the Tzu-po plant, is known to have been completed and put into operation during the year.



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INTRODUCTION

This report presents information on the current status of the following major cement plants in China:

- I. Chao-hsien Cement Plant.
- 2. Chi-lin (Kirin) Cement Plant.
- 3. Chi-lin Cement Plant 2.
- 4. Chiang-shan Cement Plant.
- 5. Chien-ko Cement Plant.
- 6. Chin-hsi Cement Plant.
- 7. Chiu-chiang Cement Plant.
- 8. Chou-shui-tzu Cement Plant.
- 9. Chung-ching (Chungking) Cement Plant.
- 10. Feng-feng Cement Plant.
- II. Fu-shun Cement Plant.
- 12. Ha-erh-pin (Harbin) Cement Plant.
- 13. Huang-shih Cement Plant.
- 14. Hu-chou Cement Plant.
- 15. Ku-shui Cement Plant.
- 16. Kuang-chou (Canton) Cement Plant.
- 17. Kuei-yang Cement Plant 2.
- 18. Kuei-yang Cement Plant 3.
- 19. Kun-ming Cement Plant.
- 20. Kuo-kuo Cement Plant.
- 21. Liao-yang Cement Plant.
- 22. Lin-ping Cement Plant.
- 23. Liu-chou Cement Plant.
- 24. Liu-li-ho Cement Plant.
- 25. Miao-tou-chai Cement Plant Shih-fu.
- 26. Mu-tan-chiang Cement Plant Wen-chuan.
- 27. Nan-ching (Nanking) Cement Plant Kiang-nan.
- 28. Nan-ching Cement Plant Lung-tan.
- 29. Nan-ping Cement Plant.
- 30. Pen-chi Cement Plant Kung-yuan.
- 31. Pen-chi Cement Plant South.
- 32. Shang-hai Cement Plant.
- 33. Ta-tung Cement Plant.
- 34. Tai-yuan Cement Plant.
- 35. Tang-shan Cement Plant Chi-hsin.
- Tzu-po Cement Plant Nan-ting.
- 37. Wan-nien Possible Cement Plant.
- 38. Wu-chang Cement Plant.

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	39. Wu-lu-mu-chi (Urumchi) Cement Plant. 40. Wu-sung Cement Plant. 41. Yao-hsien Cement Plant. 42. Ying-te Cement Plant. 43. Yung-an Cement Plant. 44. Yung-teng Cement Plant.	
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INSTALLATION OR AC	TIVITY NAME		COUNTRY
Chao-hsien Ceme	ent Plant		СН
UTM COORDINATES	GEOGRAPHIC COORDINATES		
50RNK799988	31-37-20N 17-50-10E		
MAP REFERENCE	-		
8th RTS. USATO (SECF	C, Series 200, Sheet MO49 RET/	93–4HL, 4th ed, Apr 68, So	cale 1:200,000
LATEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA NA	

NOTICE

The Chao-hsien Cement Plant has not been seen on interpretable photography since February 1969, the date of the latest imagery used in the previous report.

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Chi-lin Cement Plant 2 UTUM COORDINATES BENUMBER COMMREX NO. NIETB NO.	CH TIM CORRINATES GEOGRAPHIC COORDINATES BE NUMBER None None None MAP REFERENCE USATC, Series 200, Sheet M0290-3HL, 3rd ed, Jul 65, Scale 1:200,000 (SECRET, ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION Chi-lin Cement Plant 2 Slocated in the rorthern sector of Chi-lin adjacent	INSTALLATION OR AC	TIVITY NAME			COUN	ITRY
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	CTIVITY NAME	COUNTR	•
hien-ko Cemen	t Plant	СН	
TM COORDINATES	GEOGRAPHIC COORDINATES 32-05-00N 105-06-00E		
<mark>AP REFERENCE</mark> CIC. Tactica (UNCLAS		-9D, May 67, Scale !:500,000	
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
One of th	e three kilns was in oper	ration on as evidenced one of the three stacks.	by a
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oderate amoun			

	CTIVITY NAME		COUNTRY
Chin-hsi Cemen	t Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES		ÇII
51TUF188.30	40-45-42N 120-51-01E		
MAP REFERENCE		•	
15th RTS. USA	TC, <u>Series 200, Sheet MO2</u> CRET	89-24HL, 4th ed. Aug 69. Sc	cale 1:200.000
LATEST IMAGERY USI		NEGATION DATE (If required)	
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	'		
	DACIO	DESCRIPTION	
	BASIC	DESCRIPTION	
	•		
		in the Chin-hsi Cement Plan	
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A moderate	e amount of smoke was emai	nating from the stack servi	ng two of the
three kilns in	May and December 1969 in	ndicating that at least one	of the two
kilns was in op	peration.		

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ent Plant GEOGRAPHIC COORDINATES 29-36-25N 6-05-30E		CH
GEOGRAPHIC COORDINATES		CH
29-36-25N 6-05-30E		
RET	NEGATION DATE (If required)	
	IVA	···-
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	BASIC been no apparent change the date of the latest i	

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ISTALLATION OR AC	TIVITY NAME	COUNTRY	_
nou-shui-tzu (Cement Plant	СН	.•
TM COORDINATES	GEOGRAPHIC COORDINATES		2
SUD733141	38-58-12N 121-32-18E		,
AP REFERENCE			
	TC, S <u>eries 200, Sheet MO3</u> CRET	81-9HL. 3rd ed. May 67. Scale 1:200.000	25
TEST IMAGERY USE		NEGATION DATE (If required)	
			_
		NA	2
There has	been no apparent change	in the Chou-shui-tzu Cement Plant since	
ebruary 1969, Heavy smot	been no apparent change the date of the latest i ke was emanating from pot	in the Chou-shui-tzu Cement Plant since magery used in the referenced report.	
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STALLATION OR AC	CTIVITY NAME	<u> </u>		11	COUNTRY
ung-ching Ce	ment Plant				CH
M COORDINATES	GEOGRAPHIC COC	ORDINATES			<u>I Cn</u>
RXH518693	29-32-40N	106-34-03E			
PREFERENCE					
th RTS. USA	TC, S <u>eries 20</u> CRET√	0, Sheet M0495-	<u>19HL, 3rd ed, N</u>	Mar 68. Scal	e 1:200.000
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TEST IMMGERT US		j	IEGATION DATE (IT req	urrea	
				NΑ	
				1471	

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NSTALLATION OR AC	TIVITY NAME		COUNTRY
Tana fama Cama	at Dlant		СН
eng-feng Cemer	GEOGRAPHIC COORDINATES		
0SKR502383	36-26-00N 14-10-20E		
MAP REFERENCE			
5th RTS. USAT	C, Series 200. Sheet MO: CRET	382-24HL, 3rd ed, Aug 67, Sc	cale 1:200,000
ATEST IMAGERY USE		NEGATION DATE (If required)	
		NA	
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There was	a moderate amount of smo	imagery used in the previous oke emanating from two of th	s report.
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INSTALLATION OR AC	TIVITY NAME		COUNTRY
Fu-shun Cement	Plant		СН
UTM COORDINATES 51TWG719326	GEOGRAPHIC COORDINATES 41-51-01N 123-51-49E		
MAP REFERENCE USA (SEC	C, Series 200, Sheet M0290)-llHL, 4th ed, Jan 66, Scal	e 1:200,000
LATEST IMAGERY USE	D	NEGATION DATE (If required)	`
		NA	

NOTICE

The Fu-snun Cement Plant has not been seen on interpretable photography since April 1969, the date of the latest imagery used in the previous report.

TOP SECRET

-16-

25X1 25X1

		SECRET		
NSTALLATION OR AC	TIVITY NAME		COUNTRY	
Ha-erh-pin Cem	ent Plant I geographic coordinates		CH	
52TCF220782	45-49-45N 126-42-59	ĐE		
MAP REFERENCE	13 13 13 13 12 12			
5th RTS. USA	TC, Series 200. Sheet	M0283-13HL, 2nd ed, Dec 64,	, Scale 1:200,000	
ATEST IMAGERY US	ED	NEGATION DATE (If required)		
January 1969,	been no apparent char the date of the lates	NA SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent char the date of the lates	SIC DESCRIPTION nge in the Ha-erh-pin Cement	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	
January 1969, Moderate	been no apparent charthe date of the lates to heavy smoke was em	SIC DESCRIPTION nge in the Ha-erh-pin Cement t imagery used in the previo	ous report.	

-17-

25X1

STALLATION OR AC	TIVITY NAME	COUNTRY
uang-shih Ceme	ent Plant	СН
TM COORDINATES	GEOGRAPHIC COORDINATES	GIT
ORLJ 151448	30-13-22N 115-04-20E	
MAP REFERENCE		_
2nd RTS. USAT((SEC)		93-IIHL, 4th ed, Jul 68, Scale I:200,000
LATEST IMAGERY USE	FD.	NEGATION DATE (If required)
		(123/1/3/12/////////////////////////////
		NA
		547
There has		DESCRIPTION in the Huang-shih Cement Plant since
lovember 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	DESCRIPTION in the Huang-shih Cement Plant since magery used in the previous report. operating, as indicated by smoke emanating me plant did not appear to be operating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two do	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating
November 1967, In Decembe from the two de	been no apparent change the date of the latest i er 1969 both kilns were c ust catchers. In July th	in the Huang-shih Cement Plant since magery used in the previous report. Operating, as indicated by smoke emanating

INSTALLATION OR AC	CTIVITY NAME		COUNTRY	_
				. `
Hu-chou Cement	Plant GEOGRAPHIC COORDINATES		CH	-
51RTE221273	30-56-42N 120-05-30E			
MAP REFERENCE	30 30 4211 120 03 301	<u></u>		
ACIC. USATC.	Series 200. Sheet M0492-6	HL, 4th ed, Oct 67, Scale i:	200.000	
(SECRE I	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ATEST IMAGERY USI	ED .	NEGATION DATE (If required)		_
		NA		

Hu chou Cement Plant is located 4.8 nm north of the center of Hu-chou. The plant is road and water served; partially secured by a wal , and occupies an area approximately 1,000 by 950 feet.

TOP SECRET

25X1 25X1

	TOP SECRET	
This plant produces cemen s production are obtained forted to the plant by barge. The quarry, with the final The plant has one rotary large masonry stack. In added plant includes a coal prepoking and shipping building Except for the storage signatures are complete and operational citity was built between Declarating from the stack on all rich and May 1966.	Most of the preparation preparation at the plant. kiln measuring 220 by 10 ition to those items annotation facility, a gypsu with six silos, and sever los and the packing and sin February 1962. The perhaps 1964 and October 1965	of materials takes place feet which is served by otated on the photograph, am preparation section, a ral support buildings. Shipping building, the estorage and shipping 965. Smoke was seen

	TOP SI	ECRET	
ISTALLATION OR AC	TIVITY NAME		COUNTRY
	(,,,,,,		COUNTRY
u-shui Cement	Plant		СН
TM COORDINATES	GEOGRAPHIC COORDINATES		
PRFA178691	27-44-00N 12-12-00E		
	TC Sorios 200 Shoot MO4	97-5HL, 2nd ed. Nov 65. Scale	
(SE	CRET/	97-JAL, ZNa ea. NOV 65. Scale	1:/00.000
ATEST IMAGERY USE	D	NEGATION DATE (If required)	
		110	
969, the date	been no apparent change of the latest imagery us	NA DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche	·
In Septemble ndicating that	been no apparent change of the latest imagery us per 1969 smoke was seen e	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
In Septemble ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
In Septemble ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
In Septemble ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
In Septemble ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
In Septemble ndicating that	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers
969, the date In Septemb	been no apparent change of the latest imagery use per 1969 smoke was seen en t the two kilns were in o	DESCRIPTION in the Ku-shui Cement Plant s ed in the previous report. manating from both dust catche beration. In July the plant o	· ers

		· · · · · · · · · · · · · · · · · · ·
		CH
ang-chou Ceme	ent Plant GEOGRAPHIC COORDINATES	
QGR292630	23-09-10N 113-14-15E	
P REFERENCE		
USAT	C, <u>Series 200, Sheet MO6</u>	14-6HL, 5th ed, May 68, Scale 1:200,000
(SEC	CRET	
TEST IMAGERY USE	ED	NEGATION DATE (If required)
		NA
		IVA
A moderat n September a peration.	e amount of smoke was ema nd December 1969 indicat	anating from two of the four dust catchers ring that two of the four kilns were in
jetai ron.		

Kuei-yang Cement Plant			
O IN COURDINATES GEOGRAPHI	COORDINATES	CH	
48RXE672385 26-33-	IN 106-40-45E		•
(SECRET)		2nd ed, Oct 65, Scale 1:200.000 DATE (If required)	2!
		NA	
1968, the date of the la	test imagery used in the	March 1969 indicating the	
in special for, i	ar no smoke was visible	The August.	

ISTALLATION OR A	CTIVITY NAME		COUNTRY	_
uei-yang Ceme	ent Plant 3		СН	
TM COORDINATES 8RXE664350	GEOGRAPHIC COORDINATES 26-31-30N 106-40-	15E		_
	TC, Series 200, Shee CRET√	† M0496-10H _L , 2nd ed, Oct 65,	, Scale 1:200,000	
ATEST IMAGERY US		NEGATION DATE (If required)	_	
		NA		2
	Ε	ASIC DESCRIPTION		
		ange in Kuei-yang Cement Plar ry used in the previous repor		
		s emanating from two cf the f of the four kilns were in op		

ACIC. USATC, Series 200, Sheet M0496-17HL, 3r (SECRET)	COUNTRY CH Cd ed, Jan 68, Scale 1:200,000
SECULAR COORDINATES GEOGRAPHIC COORDINATES 25-00-45N 102-37-20E APREFERENCE ACIC. USATC, Series 200, Sheet M0496-17HL, 3r (SECRET)	d ed, Jan 68, Scale 1:200,000
8RTC600688 25-00-45N 102-37-20E AP REFERENCE ACIC. USATC, Series 200, Sheet M0496-17HL, 3r (SECRET)	
CIC. USATC, Series 200, Sheet MO496-17HL, 3r	
ACIC. USATC, Series 200, Sheet M0496-17HL, 3r	
(SECRET,	
	TON DATE (If required)
	NA
-	· · · · · · · · · · · · · · · · · · ·
BASIC DESCRIP	PTION
There has been no apparent change in the 968, the date of the latest imagery used in t	
One of the two kilns was operating in Feb	p any 1060 and indicated by the
manating from one dust catcher.	isary 1909 as indicated by smoke
REFERENCES	

M COORDINATES GEOGRAPHIC COORDINATES 26-35-55N 101-34-40E Mone None	CH TM COORDINATES GEOGRAPHIC COORDINATES 17 RQV569445 26-35-55N 101-34-40E MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 369, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	CH TM COORDINATES GEOGRAPHIC COORDINATES 17 RQV569445 26-35-55N 101-34-40E MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 369, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	CH COORDINATES GEOGRAPHIC COORDINATES ROY569445 26-35-55N 101-34-40E Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, Ist ed, 1954 (UNCLASSIFIED) EST IMAGERY USED REGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two				COUNT	RY
MCOORDINATES GEOGRAPHIC COORDINATES 17RQV569445 26-35-55N 101-34-40E None None None None None None None None	MCOORDINATES GEOGRAPHIC COORDINATES 17RQV569445 26-35-55N 101-34-40E None None None None None None None None	MCOORDINATES GEOGRAPHIC COORDINATES 17RQV569445 26-35-55N 101-34-40E None None None None None None None None	RQV569445 26-35-55N IOI-34-40E Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale I:250,000, Ist ed, 1954 (UNCLASSIFIED) ESTIMAGERY USED BE NUMBER COMMREX NO. NIETB NO. None None None None None None None None None None None None None None NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two					
ATROV569445 26-35-55N 101-34-40E None N	ATROV569445 26-35-55N 101-34-40E None N	ATROV569445 26-35-55N 101-34-40E None N	RQV569445 26-35-55N 101-34-40E None None None REFERENCE S. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ESTIMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	-kuo Cemen† Plan†				
AP REFERENCE MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	AP REFERENCE MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	AP REFERENCE MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	REFERENCE S. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ESTIMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	COORDINATES GEOGRAPHIC COORDINATES		BE NUMBER	COMIREX NO.	NIETB NO.
MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	MS. Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) ATEST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	Series L500, NG 47-8, Yung-sheng (Yungpeh), China, Scale 1:250,000, 1st ed, 1954 (UNCLASSIFIED) EST IMAGERY USED NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two			None	None	None
NEGATION DATE (If required) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	NEGATION DATE (If required) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	NEGATION DATE (If required) NEGATION DATE (If required) NA BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two					
BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two		(Yungpeh), C	hina, Scale	1:250,000,	lst ed,
BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two		NEGATION DAT	E (If required)		
BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report.	BASIC DESCRIPTION There has been no apparent change in the KLO-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	BASIC DESCRIPTION There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two					
There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	There has been no apparent change in the Kuo-kuo Cement Plant since February 969, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two	There has been no apparent change in the Kuo-kuo Cement Plant since February 59, the date of the latest imagery used in the previous report. A light amount of smoke was emanating from the dust catcher serving the two			NA		
				9, the date of the latest imagery u A light amount of smoke was emana	sed in the pr	evious repo	rt.	

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Approved For Release	2008/05/20: CIA-RDP79T00909A000700010012-6
	INP SECRET

	CTIVITY NAME		COUNT	RY
Liao-yang Ceme			CH	!
JTM COORDINATES	GEOGRAPHIC COORDINATES	BE NUMBER	COMIREX NO.	NIETB NO.
51TWF285635	41-13-35N 123-20-15E	None	None	None
(SE	TC, Series 200. Sheet M0290-1 CRET	6Hl. 4th ed .L.1 65		0,000
USA (SEI	CRET	GATION DATE (If required)	Scale !:20	0,000



BASIC DESCRIPTION

25X1

L'ao-yang Cement Plant is located $1.5\,\mathrm{nm}$ southeast of the center of Liao-yang. The plant is road and rail served, secured by a wall, and occupies an area approximately 1,300 by 850 feet.

This plant produces cement by the dry process. The raw materials are brought to the plant by small mine cars from a quarry 2,500 feet to the south.

-27-

TOP SECRET

25X1 25X1

proved For Release 2008/05/20 : CIA-RDP79T00909A000700010012-6	25X
IOF SECKET	
The plant has one partially housed rotary kiln served by a large masonry stack. The visible portion of the kiln measures 120 feet and it is estimated that the housed portion is 80 feet long. In addition to those facilities annotated on the photograph, the plant includes a coal preparation facility, a gypsum preparation section, a raw material storage building, a packing and shipping facility with four storage silos, a transformer substation with one transformer, an administration/test building, and numerous support buildings. A probable mining explosive storage facility with four small bunkered buildings is located 850 feet south of the plant. The plant was constructed prior to December 1961 and there has been no apparent change since that time. Smoke was seen emanating from the stack in December 1961, January and August 1962, May 1963, September 1964, and April and November 1966, indicating that the plant was operating.	25X1
	25 <i>></i>
TOP SECRET	25)

NSTALLATION OR AC	TIVITY NAME		COUNTRY
_in-ping Cemen			СН
FIRTD339672	GEOGRAPHIC COORDINATES		
MAP REFERENCE	30-24-30N 120-13-45E		
	Series 200 Shoot M0402 Gu	1.4th ed Oct 67 Scala L	
(SECRET,	307 103 200; Sheet M0492-8H	1. 4Th ed Oct 6/ Scala I	• 200 000
ATEST IMAGERY USE	ь	NEGATION DATE (If required)	
		NA NA	
	, , , , , , , , , , , , , , , , , , ,		

-29-TOP SECRET

TOP SECRET	25 ²
This plant produces cement by the dry process. The raw materials are taken from two quarries just southwest of the plant and moved to the plant by a conveyonere is probably one rotary kiln housed in a building 200 by 35 feet and served y a large masonry stack. In addition to those items annotated on the photograph he plant includes a coal preparation section, a gypsum preparation section, a acking and shipping facility with 14 storage silos, and several support building. The plant was complete and operating in February 1962. The only apparent hange since that date has been the lengthening of the raw materials storage building. Smoke was issuing from the stack, indicating that the plant was operating, in all referenced photography except July 1962, May 1966, January 1967, November 968, and February 1969.	r. , s.
	25>

TOP SECRET

		2FCKF1		
NSTALLATION OR AC	CTIVITY NAME		COUNTRY	
				, •
Liu-chou Cemen			CH	
	GEOGRAPHIC COORDINATES 24-22-20N 109-15-20E			25)
49RCS225963	24-22-20N 109-10-20E			_ `▲
ACIC. USATC,		-22HL, 2nd ed, Apr 65, Scal	e 1:200,000	05
(SECRET		NEGATION DATE (If required)		25)
ATEST IMAGERY US	EU	NEGATION DATE (IT required)		
				OE'
		NA		25)
1969, the date	e of the latest imagery	ge in the Liu-chou Cement Pl used in the previous report	•	
1969, the date	e of the latest imagery se amount of smoke was e	ge in the Liu-chou Cement Plused in the previous reportemanating from all three duseting that all three kilns w	t catchers on	2
1969, the date	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	_
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	_
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	_
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date A moderat	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	
1969, the date	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	257
1969, the date	e of the latest imagery se amount of smoke was e	used in the previous report emanating from all three dus	t catchers on	

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TOP SECRET

			COUNTRY
NSTALLATION OR A	CTIVITY NAME		COOK III.
_iu-li-ho_Ceme	nt Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES 39-35-51N 16-01-41E		-
MAP REFERENCE	<u> </u>		200,000
ACIC. USATC, (SECRET	Series 200, Sheet M0381-	IHL, 4th ed, Nov 65, Scale I	:200,000
LATEST IMAGERY US		NEGATION DATE (If required)	
		NA	
	BASIC	DESCRIPTION	
November 1968	s been no apparent change , the date of the latest s emanating from one of t	in the Liu-li-ho Cement Pla imagery used in the previous	ant since s report. and from both

-32-

. .	•		
TIVITY NAME		COUNTRY	•
		СН	
			2
			_՝ •
C, Series 200, Sheet MO	385-8HL, 2nd ed. May 66.	Scale 1:200.000	
·KE I /			2
D	NEGATION DATE (If required)	-	
			2!
	NA NA		23
	·]
			,
			•
	ement Plant Shih-fu GEOGRAPHIC COORDINATES 34-44-00N 112-01-00E C, Series 200, Sheet MO RET D BASIC been no apparent change the date of the latest amount of smoke was ema	ement Plant Shih-fu GEOGRAPHIC COORDINATES 34-44-00N 112-01-00E C, Series 200, Sheet M0385-8HL, 2nd ed. May 66. RET NEGATION DATE (If required) NA BASIC DESCRIPTION been no apparent change in the Miao-tou-chai Cemthe date of the latest imagery used in the previ	ement Plant Shih-fu GEOGRAPHIC COORDINATES 34-44-00N 112-01-00E C, Series 200, Sheet M0385-8HL, 2nd ed. May 66. Scale 1:200.000 RET NEGATION DATE (If required) NA BASIC DESCRIPTION Deen no apparent change in the Miao-tou-chai Cement Plant since the date of the latest imagery used in the previous report. amount of smoke was emanating from the two dust catchers in

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TOP SECRET

TALLATION OR AC	TIVITY NAME	COUNTRY	
-tan-chiang (Cement Plant Wen-chuan	СН	
OORDINATES	GEOGRAPHIC COORDINATES	_	
ΓΕΕ383185	44-25-24N 129-28-58E		
REFERENCE			
	T <mark>C, Series 200. Sheet MO2</mark> CRET	283-25HL, 4th ed, Oct 68, Scale I:200,00	00
TEST IMAGERY US		NEGATION DATE (If required)	
		NA	
There has cember of 19	been no apparent change 68, the date of the lates	in the Mu-tan-chiang Cement Plant since st imagery used in the previous report.	€
Heavy smo	ke was emanating from the ecember 1969.	e stack serving the single kiln on both	•

-34-

THE MINISTRA	CTIVITY NAME		COUNTRY
an-ching Ceme	ent Plant Kiang-nan		СН
M COORDINATES	GEOGRAPHIC COORDINATES		
)SPL'864590	32-09-25N 18-58-35E		
PREFERENCE BRTS LISAT	C Series 200 Sheet MO38	- 36-23HL, 4th ed, Aug 68, Sa	
(SEC	CRET	30-23FE, 41H ed, Aug 66, 30	care 1:200,000
TEST IMAGERY USE	ED.	NEGATION DATE (If required)	
LOT IMAGENT USE		NEGATION DATE (IT required)	
		NA	
gust 1968, t A moderat	been no apparent change the date of the latest ima	DESCRIPTION in the Nan-ching Cement Plagery used in the previous anating from the stack serv	report.
gust 1968, t A moderat	been no apparent change he date of the latest ima	in the Nan-ching Cement Pl agery used in the previous	report.
gust 1968, t A moderat	been no apparent change the date of the latest ima	in the Nan-ching Cement Pl agery used in the previous	report.

25X1

NSTALLATION OR AC	CTIVITY NAME	 		COUNTRY	_
Notification of the				•	
Nan-ching Ceme	ent Plant Lung-tan			СН	
ITM COORDINATES	GEOGRAPHIC COORDINATES				
50SPL953603	32-10-07N 119-04-0	!E			
	TC, Şeries 200. Sheet	M0386-23HL. 4th ed	d, Aug 68, Sc	cale 1:200,000	- , ,
(SEC	CRET/				:
ATEST IMAGERY US	ED	NEGATION DATE	(If required)		
			NA		_ ;
		ASIC DESCRIPTION			
A moderat	te amount of smoke wa	s issuing from all	three stacks	s 'n October	
A moderat and December 1	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks ins were oper	s 'n October rating.	
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks ins were oper	s 'n October rating∙,	
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks ins were oper	s 'n October rating∙,	:
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating.	;
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating∙,	;
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating.	:
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating,	;
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating.	,
A moderation	te amount of smoke wa	s issuing from all at least three kil	three stacks	s 'n October rating.	
A moderat	te amount of smoke wa 1969 indicating that	s issuing from all at least three kil	three stacks	s 'n October rating.	
A moderation	te amount of smoke wa	s issuing from all at least three kil	three stacks	s 'n October rating.	;
A moderat	te amount of smoke wa	s issuing from all at least three kil	three stacks	s 'n October rating.	

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TOP SECRET

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COUNTRY
CH
68. Scale 1.200 000

The Nan-ping Cement Plant has not been seen on interpretable photography since November 1968, the date of the latest imagery used in the previous report.

Pen-chi Cement Plant Kung-yuan TM COORDINATES GEOGRAPHIC COORDINATES	-	CH
1TWF629720 41-18-11N 123-44-46E		
USATC, Series 200, Sheet MO290-16HL, 4th	ed. Jul 65. Scale I	:200,000
(SECRET		•
ATEST IMAGERY USED NEGATION DAT	TE (If required)	
	NA	
BAS C DESCRIPTION		
<u> </u>		

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TOP SECRET

			COUNTRY
Pen-chi Cement	t Plant South		СН
UTM COORDINATES			
51TWF602680	41-15-56N 123-43-10E		
\[USA	ATC S <u>eries 200. Sheet MC</u> ECRET	0290-16HL. 4th ed. Jul 4	55 Scale 1:200,000
_ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		N/ <i>f</i>	<u> </u>
	D4.0.1.0		
	BASIC	DESCRIPTION	
There has March 1969, th	been no apparent chang e date of the latest 'm	e in the Pen-chi Cement agery used in the previ	Plant South since ous report.
	no smoke from either s		
mere was some	sream or smoke emanati	ng from the primary ari	nding section in
se in the two	indicating that raw mate	erials were probably be	ing prepared for

			<u></u>
STALLATION OR AC	TIVITY NAME	COUN	ITRY
nang-hai Ceme	nt Plant	С	DH
M COORDINATES	GEOGRAPHIC COORDINATES		
1RUE530488	31-09-40N 21-27-37E		
PREFERENCE nd RTS. USAT (SEC		92-7HL, 3r d ed, May 68, Scale 1:20	00,000
TEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
		1	
969, the date Moderate	s been no apparent change e of the latest imagery u to heavy smoke was emana	in the Shang-hai Cement Plant singles sed in the previous report.	
969, the date	s been no apparent change e of the latest imagery u to heavy smoke was emana	in the Shang-hai Cement Plant sir sed in the previous report.	
969, the date	s been no apparent change e of the latest imagery u to heavy smoke was emana	in the Shang-hai Cement Plant singsed in the previous report.	
969, the date	s been no apparent change e of the latest imagery u to heavy smoke was emana	in the Shang-hai Cement Plant singsed in the previous report.	indicating
969, the date	s been no apparent change e of the latest imagery u to heavy smoke was emana	in the Shang-hai Cement Plant singsed in the previous report.	indicating

TALLATION OR A	CTIVITY NAME	COUNTRY
-tung Cement	† Plan†	CH
COORDINATES SFQ810286	GEOGRAPHIC COORDINATES 39-59-08N 13-07-10E	
REFERENCE th RTS. USA (SE	ATC, Series 200, Sheet M	40382-3HL. 2nd ed. Jul 67. Scale I:200.000
EST IMAGERY USI	ED	NEGATION DATE (If required)
, me dare (been no apparent change of the imagery used in	·
A moderate	been no apparent change of the imagery used in	DESCRIPTION in the Ta-tung Cement Plant since Novembe the previous report.
A moderate	been no apparent change of the imagery used in amount of smoke was ema	DESCRIPTION in the Ta-tung Cement Plant since Novembe the previous report.
A moderate	been no apparent change of the imagery used in amount of smoke was ema	DESCRIPTION in the Ta-tung Cement Plant since Novembe the previous report.
A moderate	been no apparent change of the imagery used in amount of smoke was ema	DESCRIPTION in the Ta-tung Cement Plant since Novembe the previous report.

NSTALLATION OR AC	TIVITY NAME		COUNTRY
Tai-yuan Cemen	† Plant		СН
TM COORDINATES	GEOGRAPHIC COORDINATES 37-52-00N112-25-20E		
AP REFERENCE	TC. Series 200. Sheet MO		ile 1:200,000
	CRET.	, , , , , , , , , , , , , , , , , , ,	
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
	BASIC	DESCRIPTION	
There has 969, the date	been no apparent change of the latest imagery us	in the Tai-yuan Cement Plant sed in the previous report.	since March
manating from	ilns were operating in No both stacks. The plant 69 as no smoke was seen.	ovember 1969, as indicated by did not appear to be operatin	heavy smoke ng in August

25X1

INSTALLATION OR AC	CTIVITY NAME		COUNTRY	
			COONTRY	
Tang-shan Ceme	ent Plant Chi-hsin		СН	. *
JTM COORDINATES	GEOGRAPHIC COORDINATES			25
50SPJ036878	39-37-47N 118-12-00E			
MAP REFERENCE	TO 0 1 200 01 1 07			
USA (SE	IC, Series 200, Sheet 03 CRET)	81-2HL, 2nd ed, Jan 64, Sca	ale 1:200,000	25
<u>. </u>				
ATEST IMAGERY USE	ED .	NEGATION DATE (If required)		
				25
ecember 1968 Heavy smok ousing a total	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort.	25
ecember 1968 Heavy smok ousing a total	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok Dusing a total Manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok ousing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25
Heavy smok busing a total manating from	been no apparent change the date of the latest in e was emanating from the of four kilns, on	DESCRIPTION in the Tang-shan Cement Pla magery in the previous repo stacks serving two kiln bu	ort. uildings,	25

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TOP SECRET

25X1

STALLATION OR AC	TIVITY NAME		COUNTRY	-
zu-po Cementi	Plant Nan-ting		СН	
M COORDINATES 0SNR952680	GEOGRAPHIC COORDINATES 36-45-10N 118-04-08E			
PREFERENCE 5th RTS. USA (SE	TC, Series 200. Sheet MO: CRET	381-22HL, 4th ed, Jul 68,	Scale 1:200,000	
TEST IMAGERY USE	:D	NEGATION DATE (If required)		
		NA		
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A modust catchers in Cone of the older kilns we	derate amount of October and Decembe	
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A mod he four dust catchers in O	derate amount of October and Decembe	
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A mod he four dust catchers in O	derate amount of October and Decembe	
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A mod he four dust catchers in O	derate amount of October and Decembe	
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A mod he four dust catchers in O	derate amount of October and Decembe	
reviously,was moke was seen	u-po Cement Plant, a four completed and operations emanating from two of the	DESCRIPTION th kiln, which had been se al by October 1969. A mod he four dust catchers in O	derate amount of October and Decembe	

STALLATION OR AC	CTIVITY NAME		COUNTRY
			COUNTRY
an-nien Possi	ble Cement Plant		СН
TM COORDINATES ORNG062767	GEOGRAPHIC COORDINATES 28-43-30N 17-03-50E		-
AP REFERENCE nd RTS. USAT (SEC	C, Series 200, Sheet MO4	- 93-23HL, 3rd ed, Nov 67, Sca	ale 1:200,000
TEST IMAGERY USE	D	NEGATION DATE (If required)	
		NA	
	BASIC (DESCRIPTION	
goo, the date	of the imagery used in t	in the Wan-nien Cement Planthe previous report. The planthe planthe site since Se	ant remaine

Ар	proved For Release 2008/05/20 : CIA-RDP79T0 TOP S	0909A000700010012-6SECRET	25X1
*		D493-6HL, 4th ed, Jan 68, Scale	
	(SECRET) LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	ENTEST IMPOENT GUED	NA	25X1
	There has been no apparent change 1968, the date of the latest imagery of the latest ima	used in the previous report. suing from the stack serving the	e kiln indicating
			25X1

		TOP SECRET		
-	_			
STALLATION OR AC	CTIVITY NAME			COUNTRY
	Cement Plant			СН
M COORDINATES 7 5TWJ 467443	43-44-58N 087			
P REFERENCE				
nd RIS. USA (SEC	.IC, <u>Series 200,</u> RET√	Sheet M0330,3rd ed	l, Jun 69, Scale	1:200,000
TEST IMAGERY US	ED	NEGATION	I DATE (If required)	
			NA	
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	BASIC DESCRIPTION Tent change in the wather latest imagery was emanating from the kilns were in open and any 1970 as no secondary 1970	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,
ebruary 1969 A modera December 1969 Oppear to be	the date of the terminal termi	rent change in the worke latest imagery under was emanating footh kilns were in openuary 1970 as no sm	Vu-lu-mu-chi Cemused in the previous from both stacks peration. The knoke was issuing	ious report. in August and ilns did not from the stacks,

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25X1

TOP SECRET

COUNTRY
CH
2-2HL, 3rd ed, Dec 68, Scale I:200,000
NEGATION DATE (If required)
NA
DESCRIPTION
in the Wu-sung Cement Plant since March sed in the previous report. anating from the stack indicating that mber 1969.

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TOP SECRET

NSTALLATION OR AC	TIVITY NAME		COUNTRY	•
Yao-hsien Ceme	ent Plant .		СН	•
TM COORDINATES	GEOGRAPHIC COORDINATES	T		
49SCJ I 45675	34-54-20N 108-59-20E			
AP REFERENCE		-		
15th RTS. USA	ATC, S <u>eries 200, Sneet MO</u>	384-10HL, 2nd ed. Jun 68.	Scale 1:200 000	
(SE	ECRET/			
ATEST IMAGERY USE	D	NEGATION DATE (If required)		j
		NA		
A moderat	e of the latest imagery us te amount of smoke was ema	in the Yao-hsien Cement P sed in the previous report, anating from two of the thr	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report. anating from two of the the	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	· ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	ree stacks in May	
A moderat	s been no apparent change e of the latest imagery us te amount of smoke was ema	sed in the previous report.	ree stacks in May	

ISTALLATION OR A	CTIVITY NAME		COUNTRY
ISTALLATION ON A	CITATIL INVINE	_ 31	
ing-te Cemen	t Plant .		CH
TM COORDINATES 9RGS492918	GEOGRAPHIC COORDINATES 24-19-10N 113-27-20E		
	ATC, Series 200, Sheet 04 ECRET)	98–21HL, Ist ed, Mar 62, Sca	ale 1:200,000
ATEST IMAGERY US	ED	NEGATION DATE (If required)	
		NA	
	BASIC D	DESCRIPTION	
since Februar	y 1969, the date of the i incomplete and there has	e in the status of the Ying- imagery used in the previous s been no construction at th	report. The

25X1

ALLATION OR ACTIVITY NAME	COUNTRY	
g-an Cement Plant	СН	-,.
COORDINATES GEOGRAPHIC COORDINATES ND318793 26-01-40N 117-19-10E	<u> </u>	
USATC, Series 200, Sheet MO498-1	4HL, 3rd ed. Dec 67. Scale 1:200	.000
ST IMAGERY USED NE	GATION DATE (If required)	
	NA	
BASIC DESCR	IPTION	
There has been no apparent change in the November 1968, the date of the latest plant remains incomplete and there has besite since January 1967.	imagery used in the previous repo	ort.

NSTALLATION OR ACTIVITY N					
	AME		0	COUNTRY	
ung-teng Cement Plant			2	СН	
	PHIC COORDINATES			1 011	
8SUR408773 36-49-	50N 103-13-00E				
MAP REFERENCE CIC. USATC, Series 2	200. Sheet M0383-	16HL. 2nd ed. Se	n 68. Scale	1:200.000	
(SECRET/	,	,	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ATEST IMAGERY USED		NEGATION DATE (f required)		
			NA		
		<u> </u>	IN/ Y		
	BASIC	DESCRIPTION			
968, the date of the Heavy smoke was e nat all four kilns we	latest imagery us manating from the		ous report.		
968, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
968, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
968, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
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168, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
168, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
168, the date of the Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		
Heavy smoke was e	latest imagery us manating from the	sed in the previo	ous report.		

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